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Bar chart showing the PTEN/p110 ratio for various concentrations of 3AB, 4AB, and 5ABNM. The y-axis represents the PTEN/p110 ratio, ranging from 0 to 1.2. The x-axis shows the concentrations: 3AB, 4AB, 5ABNM, and a control (UNT). The legend indicates the following concentrations: 35nM (hatched), 8.75nM (black), 2.2nM (white), 0.56nM (white), 0.13nM (black), and 0.03nM (hatched).

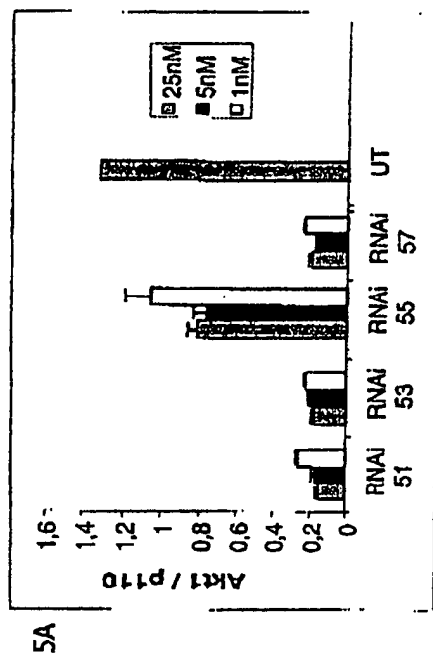
Concentration	35nM	8.75nM	2.2nM	0.56nM	0.13nM	0.03nM
3AB	~0.15	~0.18	~0.22	~0.25	~0.28	~0.32
4AB	~0.15	~0.18	~0.22	~0.25	~0.28	~0.32
5ABNM	~0.15	~0.18	~0.22	~0.25	~0.28	~0.32
UNT	~0.15	~0.18	~0.22	~0.25	~0.28	~0.32

3A



Fig. 4

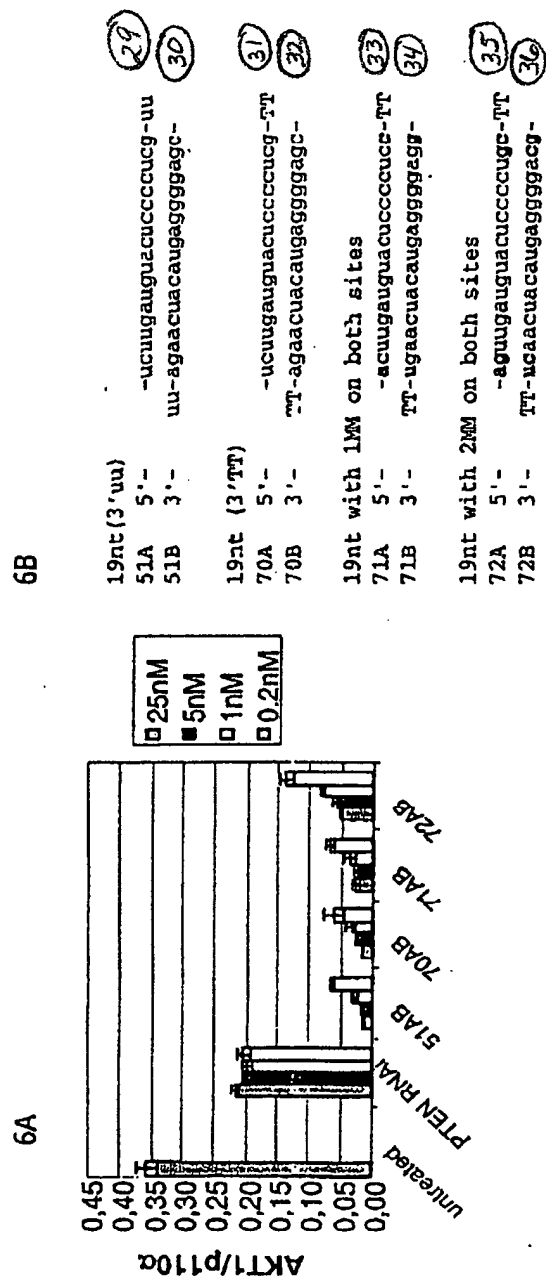
Fig. 5



5B

51A	5'-	-ucugauguacuacccccucg-uu	(21)	19nt 3',uu
51B	3'-	uu-agaacuacaugaggggagc-	(22)	
53A	5'-	-ucugauguacuacccccucg-uu	(23)	19nt 3',seq.-specific RNA
53B	3'-	cc-agaacuacaugaggggagc-	(24)	
55A	5'-	-cuugauguacuacccccuc-gu	(25)	17nt 3',seq.-specific RNA
55B	3'-	ca-gacuacaugaggggag-	(26)	
57A	5'-	-ucugauguacuacccccucg-uu	(27)	19nt 3',seq.-specific DNA
57B	3'-	cc-agaacuacaugaggggagc-	(28)	

Fig. 6



A

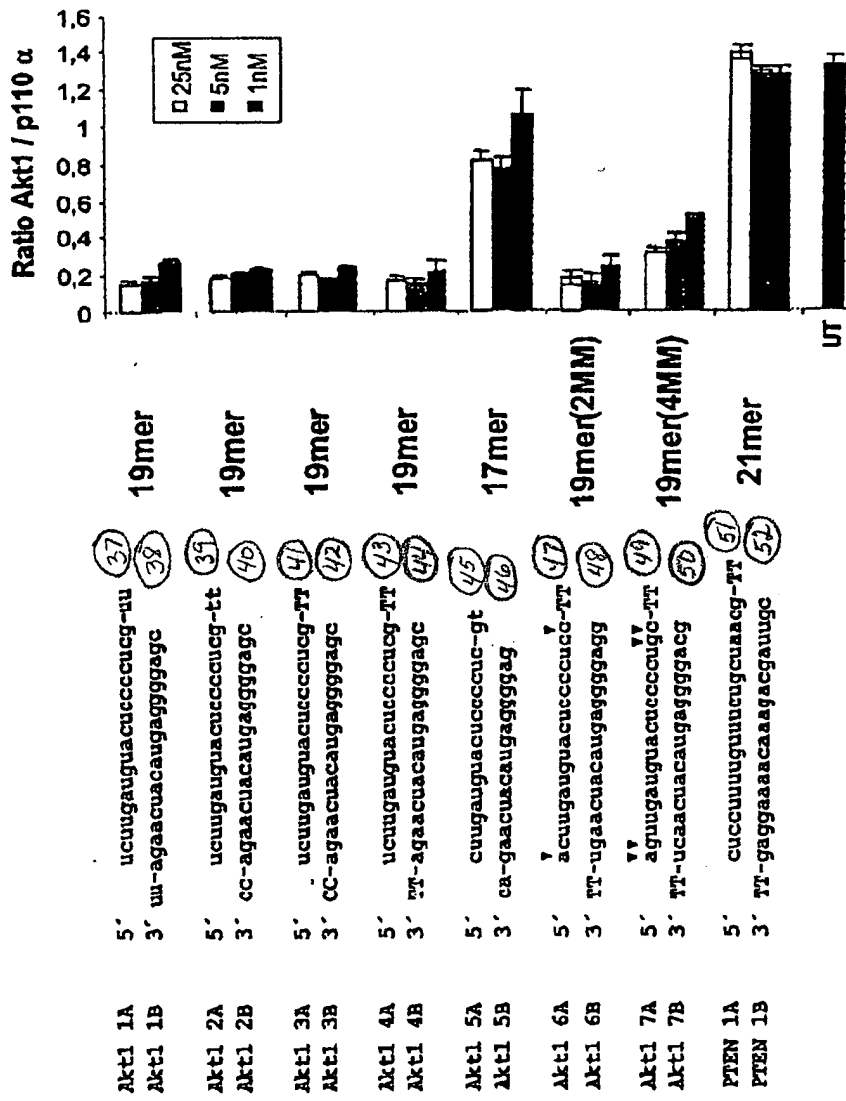


Fig. 7

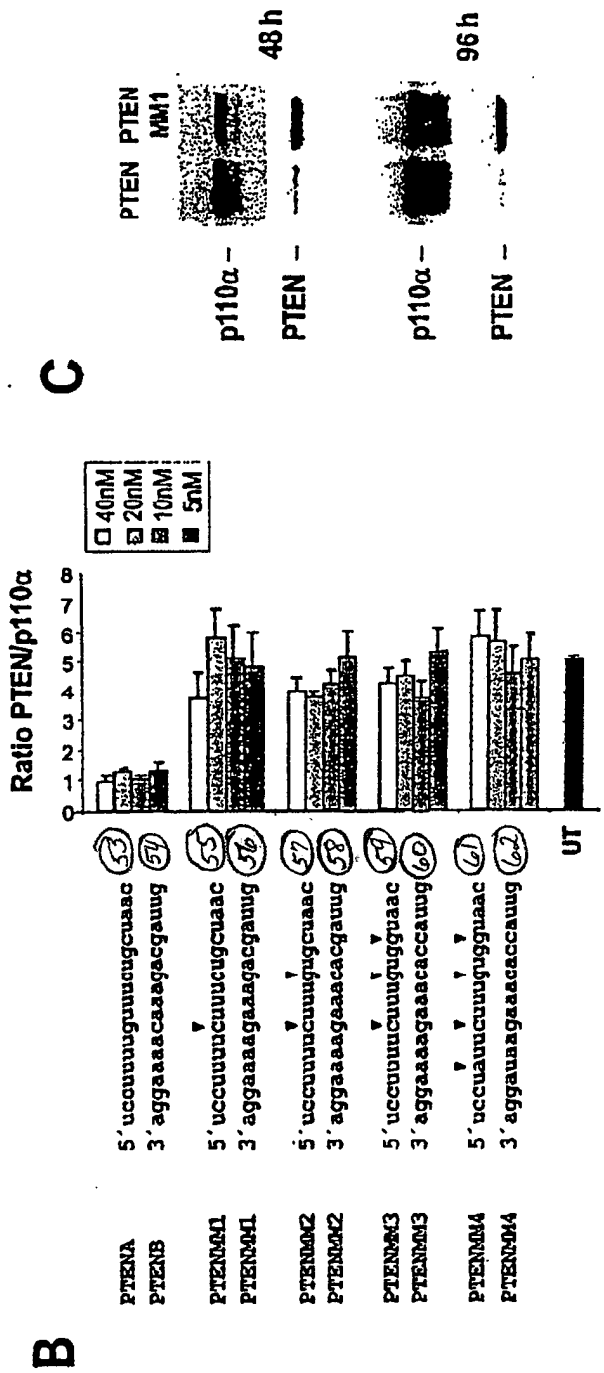
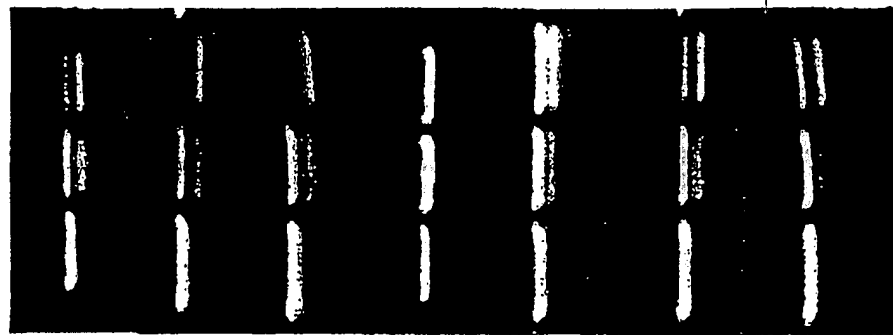


Fig. 7

Fig. 8'

Serum 0' 15' 120'



8A

Tuschl 18A 18B

5'- cuccuuuuguuucgcuuacg-9
 3'-TT-gaggaaaacaagacgaugc-10

Inverted abasic on both ends and 2'IT

24A 24B 5'- IB-cuccuuuuguuucgcuuacg-11
 3'-IB-TT-gaggaaaacaagacgaugc-IB 12

NH2groups at both ends AND 2-deoxy

26A 26B 5'- NH2-cuccuuuuguuucgcuuacg-13
 3'-NH2-TT-gaggaaaacaagacgaugc-NH2 14

2'-O-Methyl modified with 2-deoxy at each end

79A 79B 5'- cuccuuuuguuucgcuuacg-15
 3'- TT-gaggaaaacaagacgaugc 16

Only RNA

28A 28B 5'- cuccuuuuguuucgcuuacg-17
 3'- gaggaaaacaagacgaugc-18

Only RNA with 2-deoxy at each 5' end

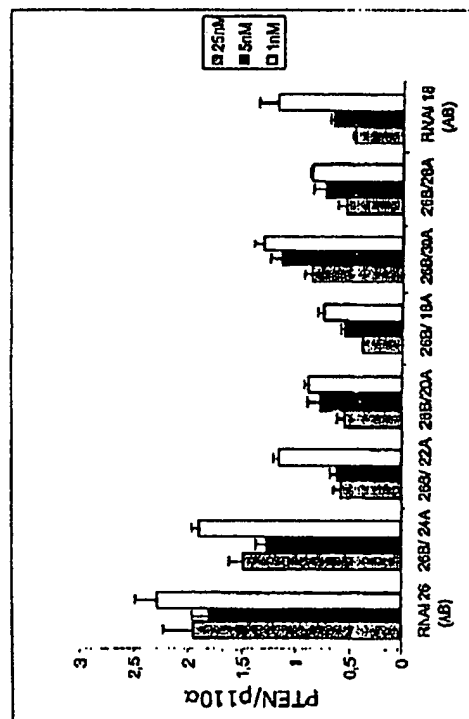
10A 10B 5'-TT-cuccuuuuguuucgcuuacg-19
 3'- gaggaaaacaagacgaugc-TT 20

NH2 groups at each 3'end and 2-deoxy

1A 1B 5'- cuccuuuuguuucgcuuacg-21
 3'-NH2-TT-gaggaaaacaagacgaugc-22

Fig. 9

98



functional
-NH₂-terminated polyurethane-NH₂
-α

functional

-000000000000-0-NH2

functional

2H-N-3,3,3-trifluoro-2H-NH2
trifluoromethylamine

not functional

$$\frac{4.5}{2}$$

26A	5' - NH2 - cuccuuuuguuucugcuacg - TT - NH2	72
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
24A	5' - iB - cuccuuuuguuucugcuacg - TT - iB	73
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
22A	5' - cuccuuuuguuucugcuacg - TT - iB	74
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
20A	5' - cuccuuuuguuucugcuacg - TT - NH2	75
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
18A	5' - cuccuuuuguuucugcuacg - TT	78
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
30A	5' - TT - cuccuuuuguuucugcuacg -	76
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
28A	5' - cuccuuuuguuucugcuacg -	80
26B	3' - NH2 - TT - gaggaacacaaagacgaugc - NH2	77
18A	5' - cuccuuuuguuucugcuacg - TT	78
18B	3' - TT - gaggaacacaaagacgaugc	79

Fig. 10

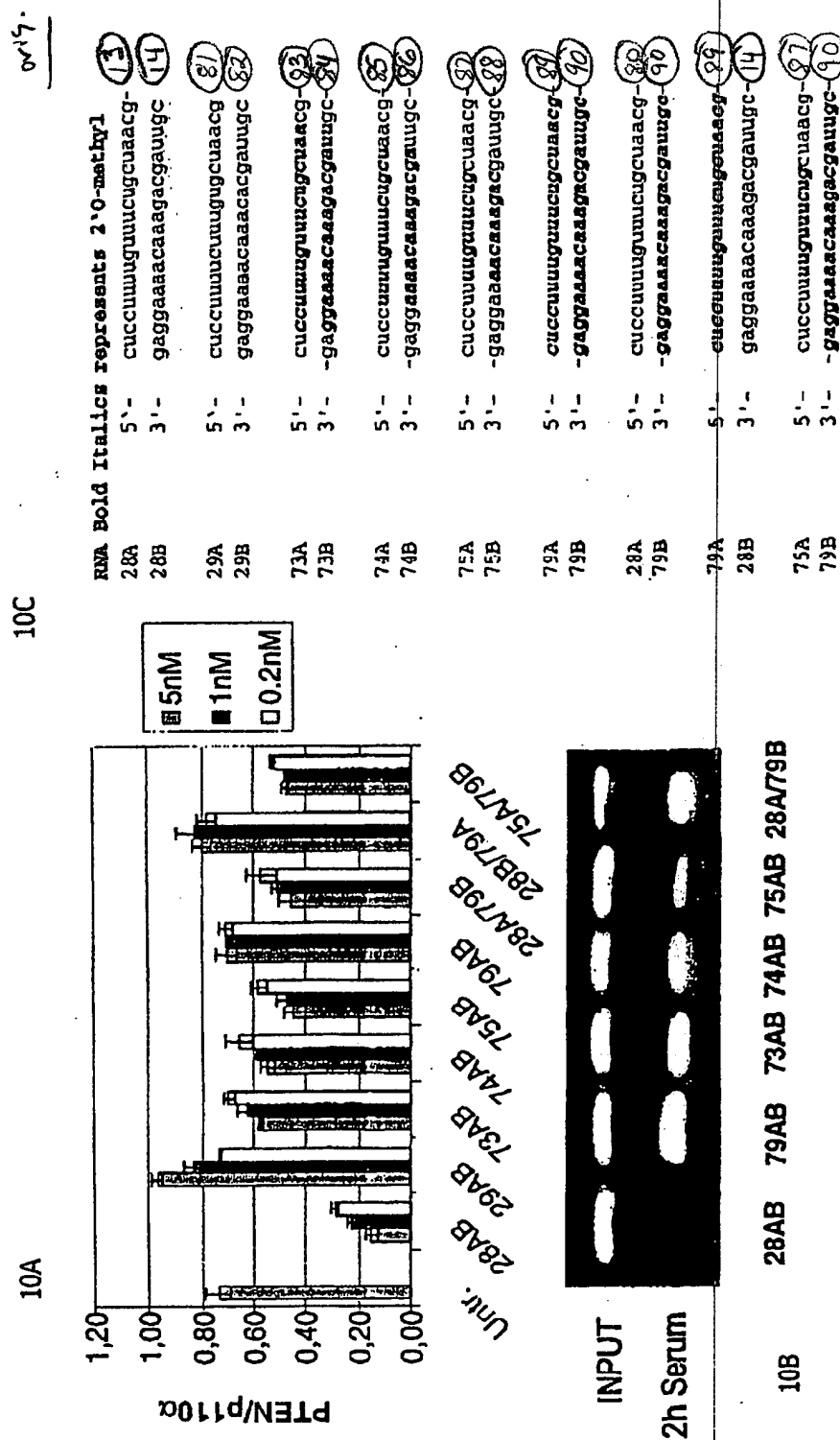
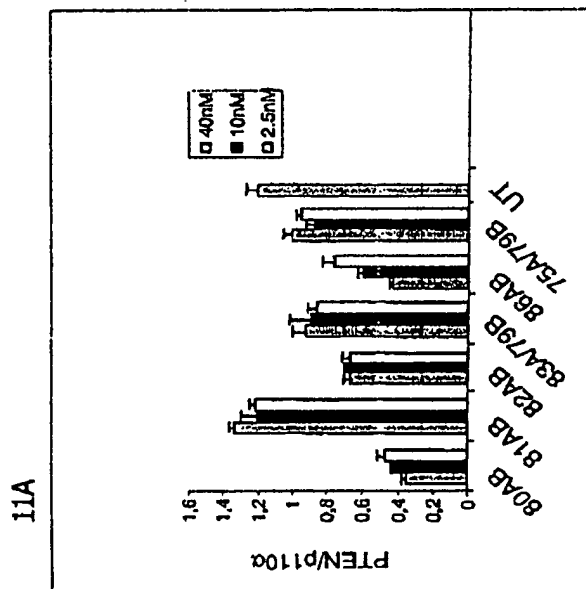


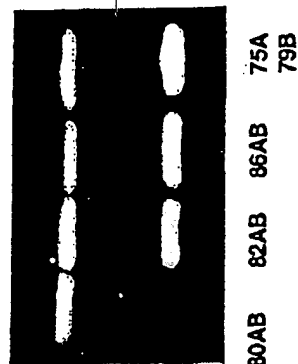
Fig. 11



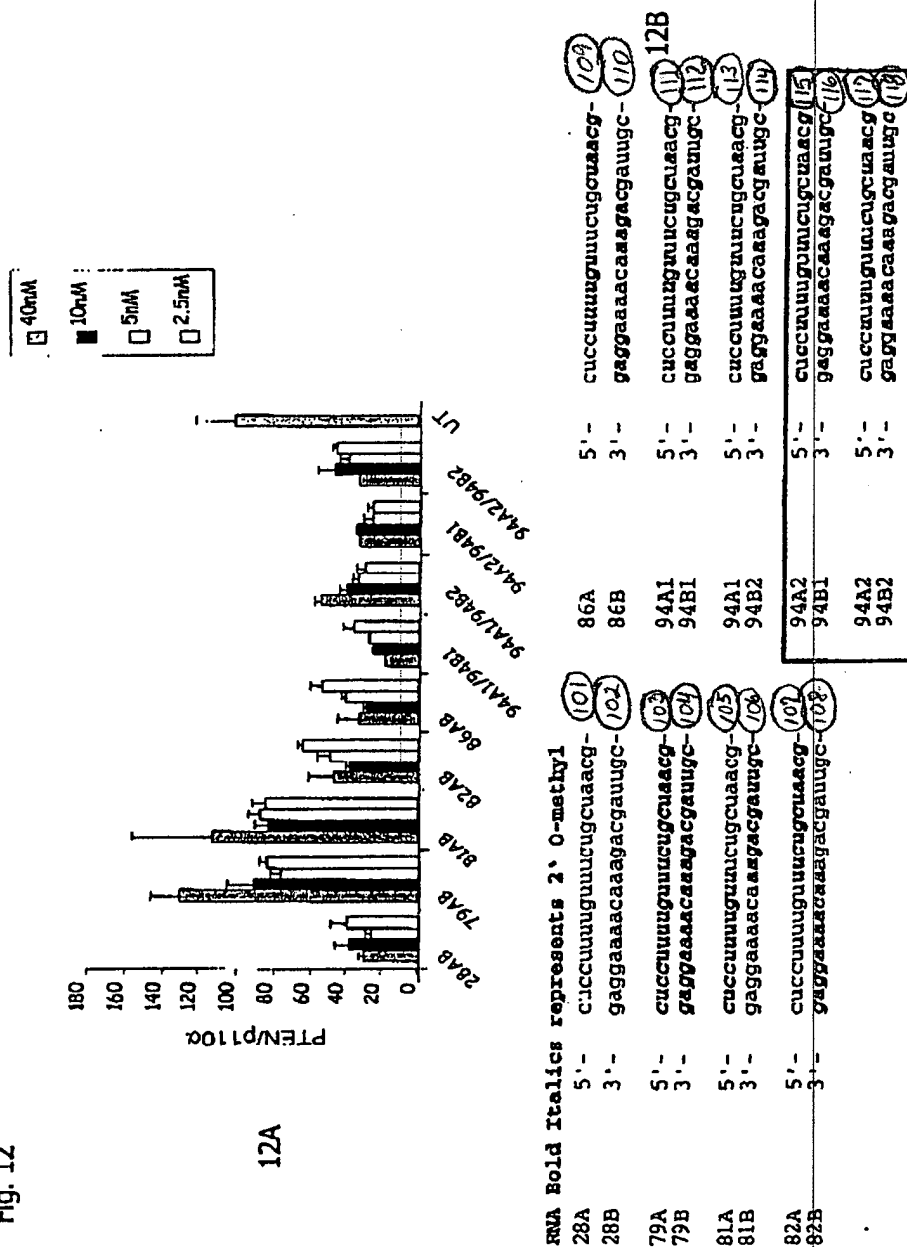
11C

RNA	5'	3'	5'	3'	5'	3'	5'	3'	5'	3'
80A	CUCCUUUUGUUUCUGUAACG-	91								
80B	-GAGGAAACAAGACGAUUGC-	92								
81A	CUCCUUUUGUUUCUGUAACG-	93								
81B	-GAGGAAACAAGACGAUUGC-	94								
82A	CUCCUUUUGUUUCUGUAACG-	95								
82B	-GAGGAAACAAGACGAUUGC-	96								
83A	CUCCUUUUGUUUCUGUAACG-	97								
79B	-GAGGAAACAAGACGAUUGC-	98								
86A	CUCCUUUUGUUUCUGUAACG-	99								
86B	-GAGGAAACAAGACGAUUGC-	100								
75A	CUCCUUUUGUUUCUGUAACG-	101								
79B	-GAGGAAACAAGACGAUUGC-	102								

118 INPUT



2h Serum



A

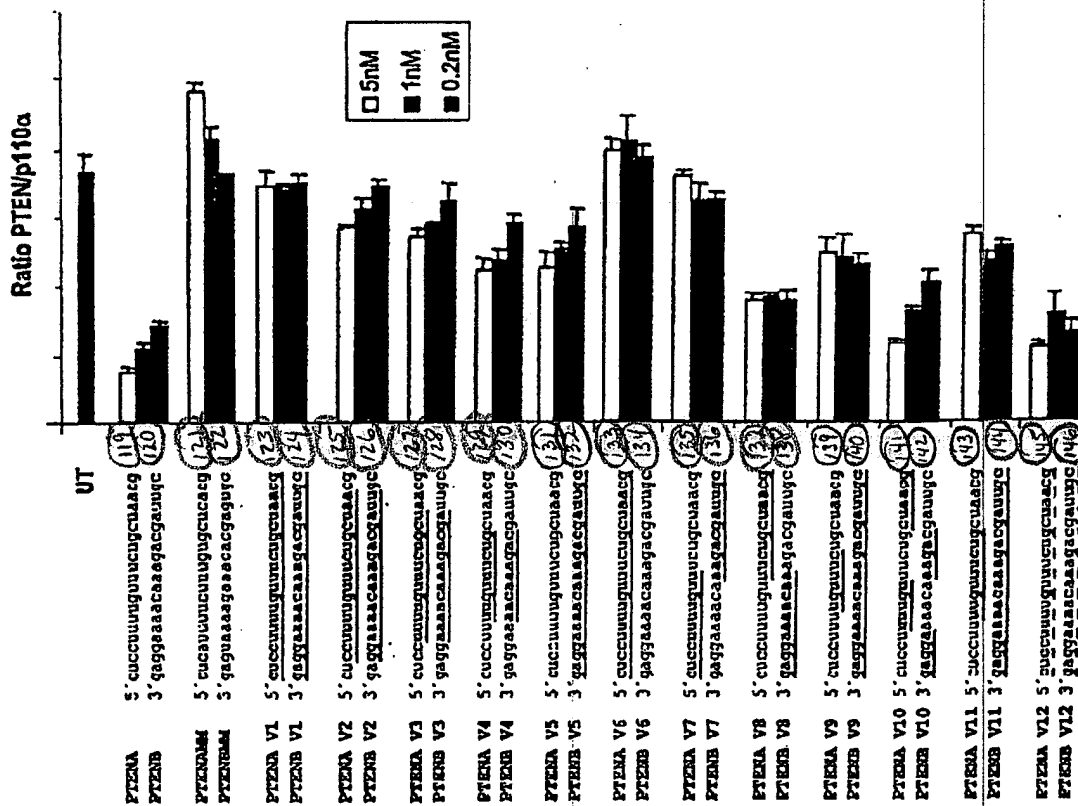


Fig. 15



Title: INTERFERING RNA

MOLECULES

Inventor: Klaus GIESE

Filed: August 5, 2003

Primer 5'-cacccttgggttggctgacacg

Primer 3'-GAGGAGAGCAGGACGATGCG-

PYENA VI

РЪЧКА ЗА ЗАПАЗВАНЕ

3

PZDA V7

PTKVB V7 3. gagfaaacaagacgaagac

1

Երկրագործական և արհեստագործական շուկաներ	Միլիարդ ՀՀ դրամ
Երկրագործական շուկա	10.0
Արհեստագործական շուկա	10.0
Ընդամենը	20.0

PTENB VB 3 gaggaataaagacgaugc

U.S. DEPARTMENT OF JUSTICE

1974 MAY 01 5' CUSCUNUGUNUGUNUG

PTZNB V10 3 qagqaaacaaagacgaauqc

100-443887-533 (ENCL)

ETIA MEDIA 5

СТАВЛЯЯ

ТЕМА V.4 5. СИСТЕМИ НА СЪВРЕМЕНАТА

INPUT

min Serum

2h Serum

AB V1 V7 V8 V10 V13 V14 V15 V12

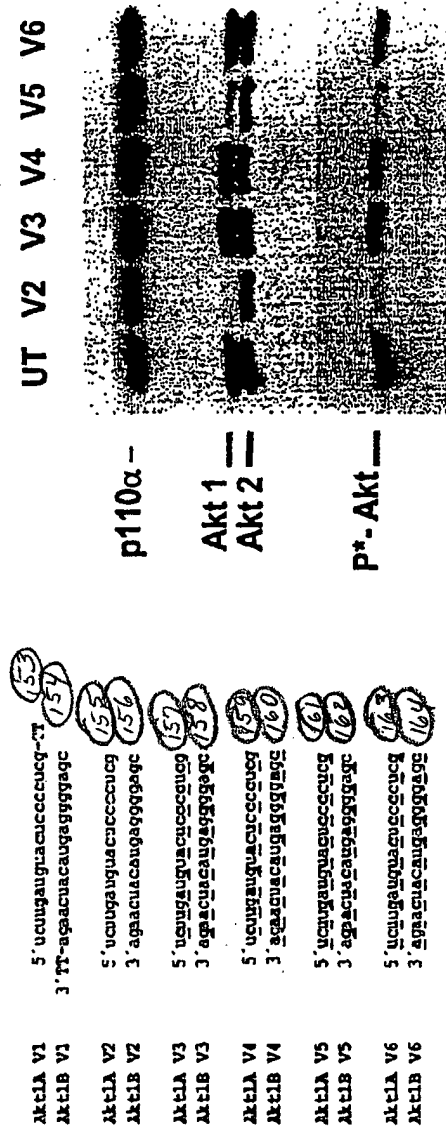
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U

Western blot analysis of p110 α and PTEN expression in H1299 cells. The top blot shows p110 α levels, and the bottom blot shows PTEN levels. Lanes are labeled UT, AB, V1, V7, V8, V10, V13, V14, V15, and V12. Molecular weight markers are indicated on the right at 120h.

Fig. 15

A



B

V1 V2 V3 V4 V5 V6



Fig. 16

C



Fig. 16

Fig.17

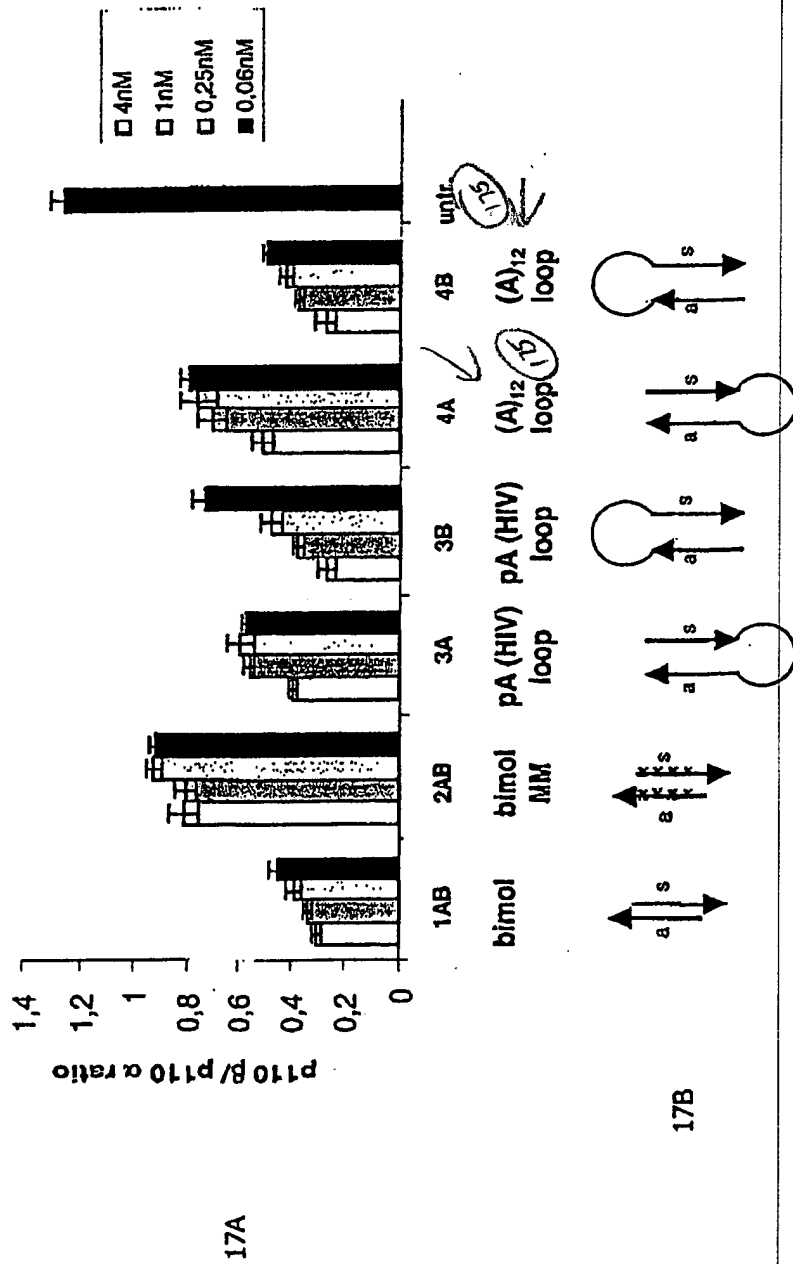


Fig. 18

